

interconnecting device and causing the intelligent interconnecting device to store therein the source IP address of the external apparatus which is determined as the apparatus not to be responded to, when the source IP address of the external apparatus is judged to be nonidentical with the stored source IP address in the seventh step or is judged to be not within the predetermined valid period in the eighth step.

14. A recording medium in which a computer readable unauthorized access avoiding program executed in an intelligent interconnecting device having a function of repeating a packet transmitted/received between a plurality of computers and being structured to be controllable by an external apparatus based on a TCP/IP protocol is recorded,

wherein the unauthorized access avoiding program comprises:

a first step of causing the intelligent interconnecting device to judge whether or not a first access to the intelligent interconnecting device from outside has occurred;

a second step of causing the intelligent

interconnecting device to carry out authentication processing by using a user identifier and a password based on

the TCP/IP protocol when it is judged in the first
5 step that the first access from outside has occurred;

a third step of causing the intelligent interconnecting device to judge after the authentication processing in the second step
10 whether or not authentication is given;

a fourth step of determining an authenticated external apparatus as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the intelligent interconnecting
15 device to judge whether or not this access is the first access, when it is judged in the third step that the authentication is given;

a fifth step of causing the intelligent interconnecting device to extract and store a
20 source IP address included in a packet which is received from the external apparatus in the authentication processing when this access of the external apparatus is judged to be the first access in the fourth step;

25 a sixth step of determining the external

09975447-101201

apparatus as an apparatus not to be responded to thereafter by the intelligent interconnecting device when the external apparatus is judged not to be authenticated in the third step;

5 a seventh step of causing the intelligent interconnecting device to judge whether or not the source IP address of the external apparatus giving the access thereto is identical with the stored source IP address when this access is judged not
10 to be the first access in the first step;

 an eighth step of causing the intelligent interconnecting device to judge whether or not the source IP address is within a predetermined valid period when the source IP address of the external
15 apparatus is judged to be identical with the stored source IP address in the seventh step;

 a ninth step of determining the external apparatus having the source IP address which is judged to be within the predetermined valid period
20 as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the intelligent interconnecting device to execute the steps beginning from the second step, when the source IP address of the external apparatus is
25 judged to be within the predetermined valid period